

**United States Department of Agriculture
Animal and Plant Health Inspection Service
Center for Veterinary Biologics
P. O. Box 844
Ames, IA 50010**

1. **Reagent Name:** *Salmonella choleraesuis* Challenge Culture
2. **Strain or Source:** APHIS, NVSL #76, *S. choleraesuis*
3. **Lot Number:** IRP SCC Serial #5
4. **Fill Date:** December 1991
5. **Expiration Date:** Not applicable

Precautions: This organism may be an opportunistic pathogen. Handle this culture under a biological safety hood while wearing gloves.

6. **Intended Use:** Challenge material for *S. choleraesuis* testing according to 9 CFR 113.122.
7. **Instructions for Use:** Rehydrate the lyophilized culture with 1 mL brain heart infusion broth (BHIB). Inoculate 10 mL of BHIB with 0.1 mL of the rehydrated culture and incubate for 16-20 hr at 35°- 37°C. Inoculate 200 mL of tryptose broth with 4 mL of the overnight culture and aerate (100 rpm) for 4 hr at 35°- 37°C, or until the optical density reaches 23-27% T at 620 nm using a Spectronic 20D+ spectrophotometer, or equivalent. The recommended mouse dose is 0.25 mL of a 10⁻⁶ dilution of the standardized culture.
8. **Test of Reagent:** Post-lyophilization plate count was 7.3 x 10⁸ CFU/mL. When prepared and administered to mice as described above, the average LD₅₀ of this lot of challenge culture was approximately 10^{-7.5} (10^{-7.73}, 10^{-8.08}, 10^{-7.31}, and 10^{-7.80}).
9. **Container Size, Type, Weight, or Volume:** 1 mL in 3-mL serum vials.
10. **Storage Conditions:** 4°C or less
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6140 or FAX (515) 337-7673.
12. **Origin and Passage History:** Origin: APHIS, NVSL #76 acquired in 1971. Passage history is not available.

13. Method of Preparation: Stock culture was rehydrated and grown on beef infusion agar. Growth was harvested from the agar with 0.85% sterile saline. The harvested culture was mixed with an equal volume of sucrose monopotassium glutamate stabilizer prior to lyophilization.

14. Other: None.

Reagent orders and feedback should be sent *including phone number* to the following email address: CVB@aphis.usda.gov

Reagent orders forms (APHIS 2018) are available from:
http://www.aphis.usda.gov/animalhealth/cvb_forms

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